McDowell County Schools -- $128,627 for solar thermal systems totaling 109 panels, to be installed at McDowell High School, East McDowell Junior High and Marion Elementary School to supply hot water for the schools. These three public schools include dining facilities that prepare breakfast and lunch for more than 2,300 students per day as well as showers at the middle and high school. The solar heating system includes solar panels, pumps, tanks, controls, wiring, piping, and insulation A Web-based monitoring service will provide access to energy production data on a daily, weekly and monthly basis. Total cost of the project is $643,136, and it will generate 657,000,000 BTU annually.

Patrick Yarn Mill, Cleveland County -- $154,108 for a 100 kW photovoltaic solar system to be installed on the Patrick Yarn Mill, a textile manufacturing company. The system will be installed on the roof of the Clevemont Plant and Corporate Offices of Patrick Yarn Mill in Kings Mountain -320 panels, along with a 3.1 kW solar array mounted on the ground in the front of the building. The Web-based monitoring system gives a complete readout of energy production from the PV system and includes real-time energy generation as well as historic data for amount of energy produced. Total cost of the project is $616,432, and it will generate 131,000 kWh annually.

Pisgah Inn, Transylvania County -- $22,353 for a solar addition to expand the existing solar hot water system for the restaurant by adding 12 solar hot water collectors and installing a new 9.8 kW grid-tied photovoltaic system on the Inn's roof. The additional 12 solar thermal panels will expand the capacity of the existing system to generate hot water for residential and dining facilities at Pisgah Inn on the Blue Ridge Parkway. A Web-based program will allow remote data access. Total cost of the project is $89,412, and it will generate 31,000 kWh annually.

Remington Arms, Rockingham County -- $200,000 for a photovoltaic solar project with to be placed on the rooftop at the Remington Arms headquarters in Madison. Remington Arms Company, Inc. in Madison designs, produces, and sells sporting goods products for the hunting and shooting sports markets. The system will be monitored by measuring the current and kWh output from the inverter. The data is uploaded to the monitoring server in real-time. Total cost of the project is $1.4 million, and it will generate 277,500 kWh annually.

Schiele Museum, Gaston County -- $60,000 for photovoltaic solar systems to be installed in two locations at the Schiele Museum in Gastonia: one on the museum building and the other on a pole-mount system in the parking lot. The museum building system will be installed on an existing south-facing roof. The parking lot installation will use a dual axis tracking system positioned in the parking lot near the main entrance of the museum. The data acquisition and monitoring system allows complete plant monitoring, remote diagnosis, data storage and display. Long-term data storage provides information about changes in plant performance, and allows access to review performance of equipment at any time from remote locations. Total cost of the project is $120,000, and it will generate 23,000 kWh annually.